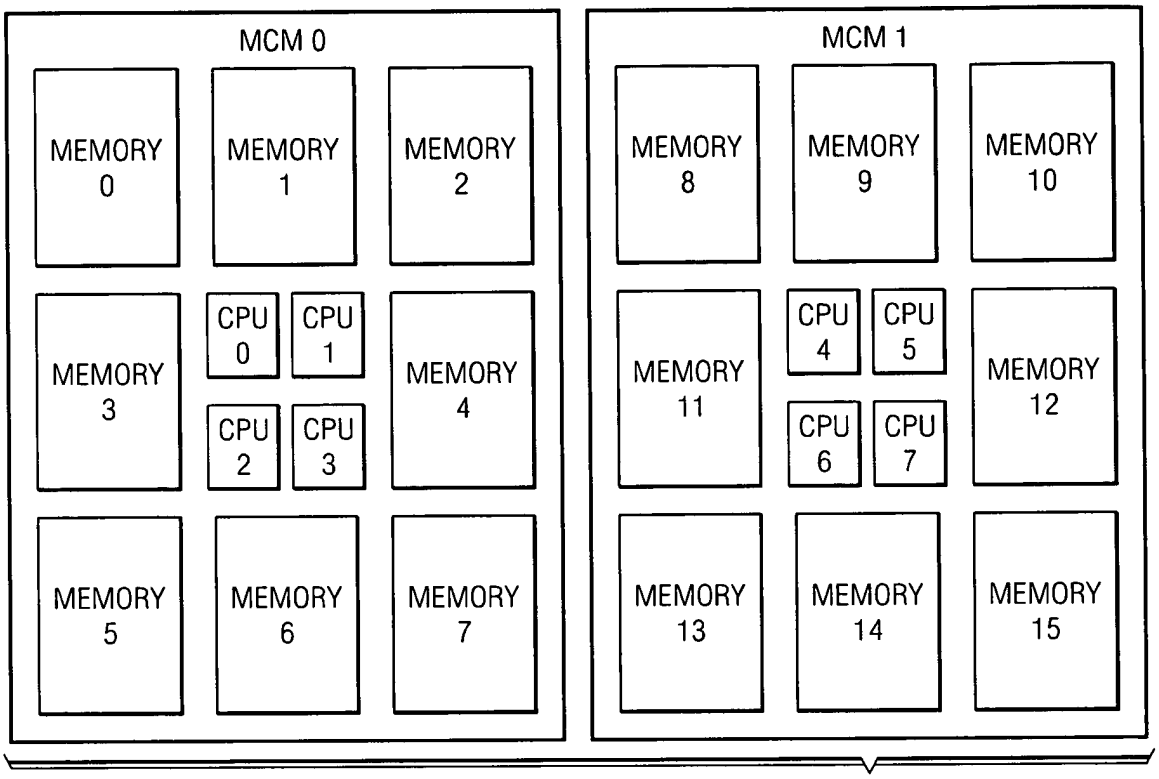

FIG. 1
(PRIOR ART)

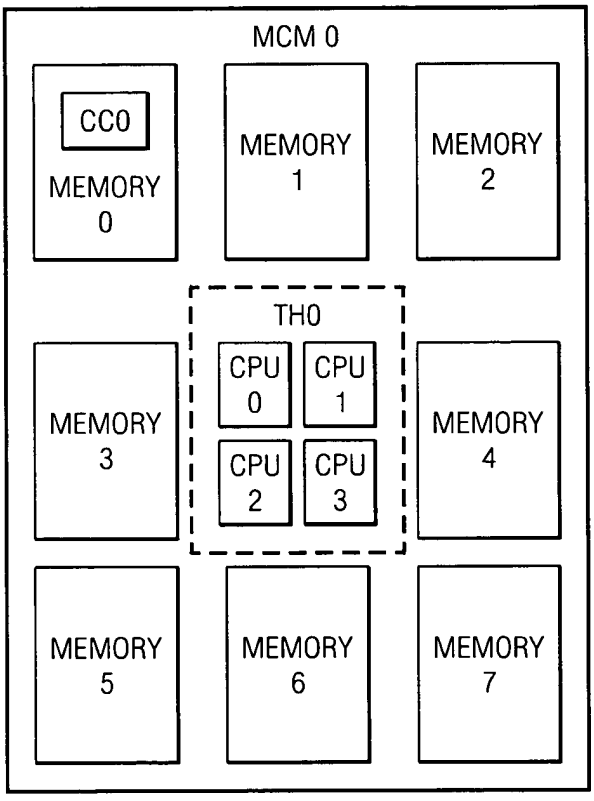

FIG. 6

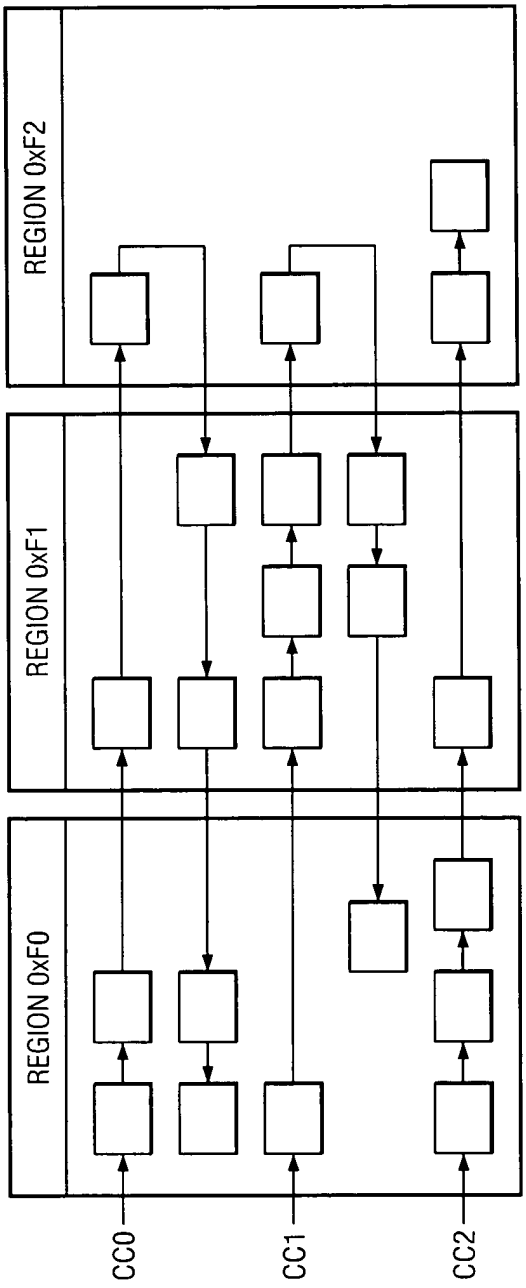
REGION 0xF2
REGION 0xF1
REGION 0xF0
CC0
CC1
CC2

FIG. 2

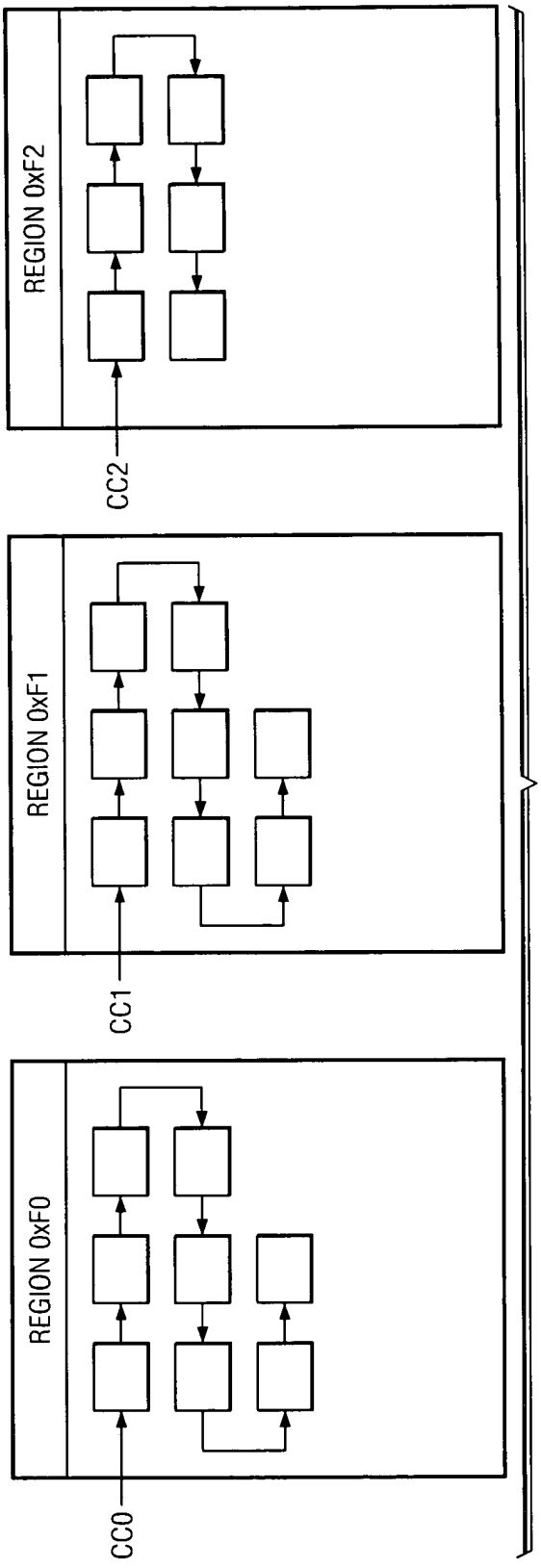
REGION 0xF2
REGION 0xF1
REGION 0xF0
CC2
CC1
CC0

FIG. 3

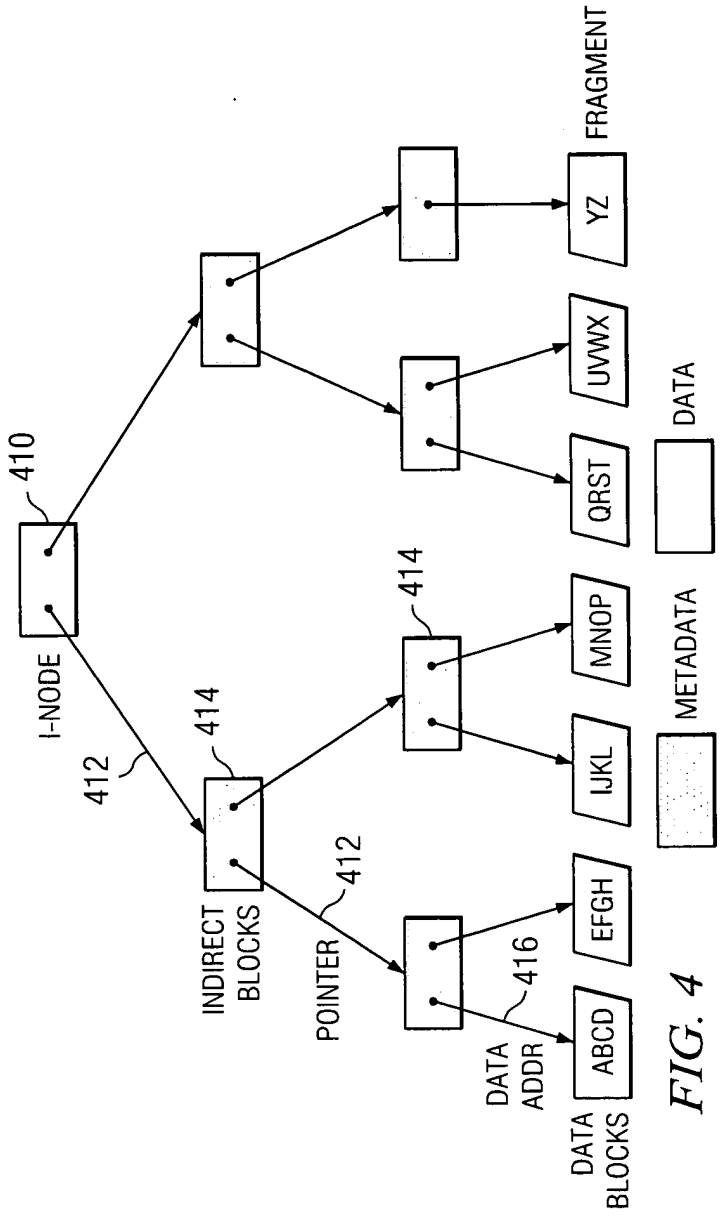
410
I-NODE
412
414
INDIRECT BLOCKS
412
POINTER
414
416
DATA ADDR
DATA BLOCKS
ABCD
EFGH
IJKL
MNOP
QRST
UVWX
YZ
FRAGMENT
DATA
METADATA

FIG. 4

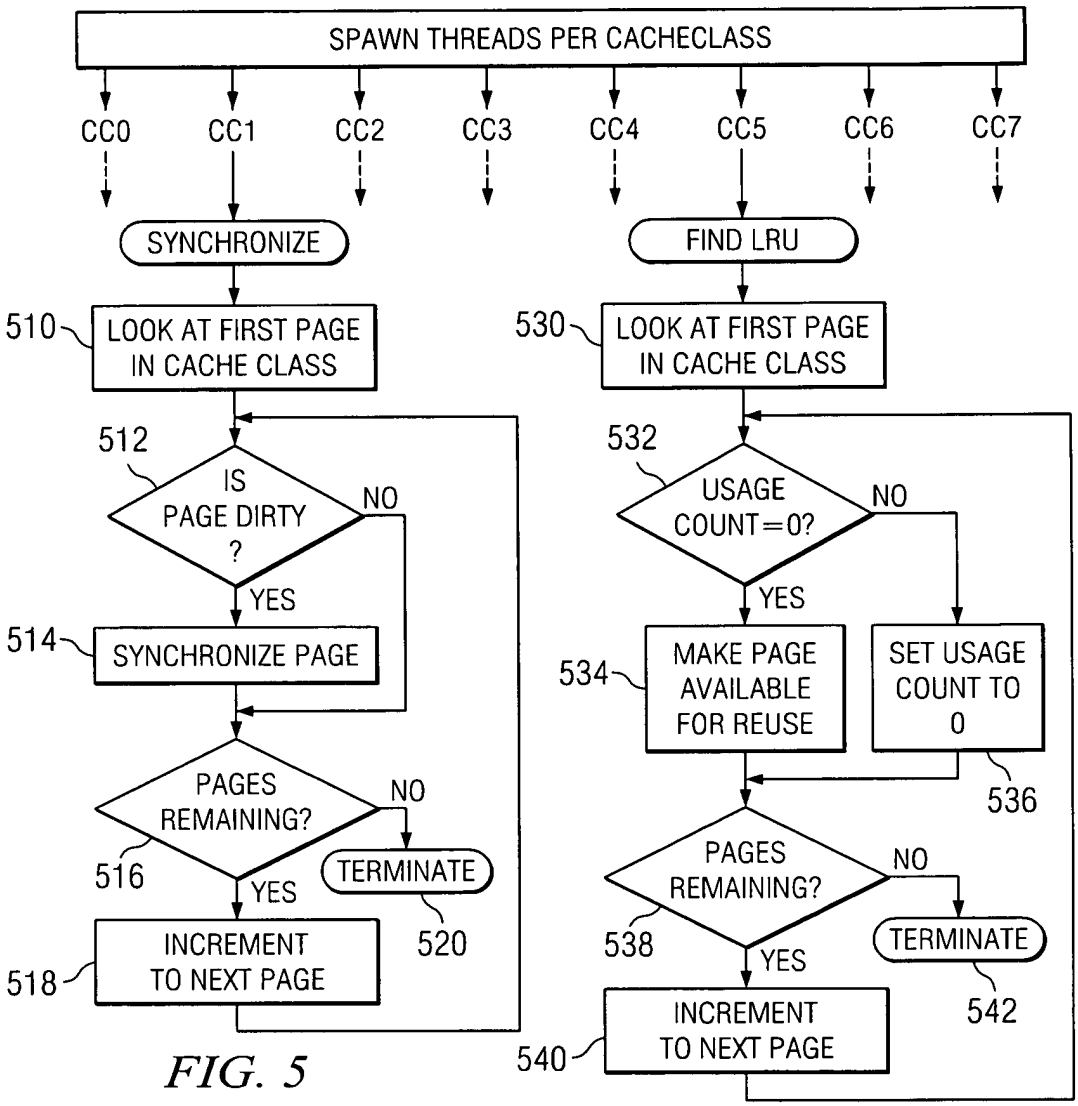
SPAWN THREADS PER CACHECLASS
CC0
CC1
CC2
CC3
CC4
CC5
CC6
CC7
SYNCHRONIZE
FIND LRU
510
LOOK AT FIRST PAGE IN CACHE CLASS
530
LOOK AT FIRST PAGE IN CACHE CLASS
512
IS PAGE DIRTY ?
NO
YES
514
SYNCHRONIZE PAGE
PAGES REMAINING?
NO
516
YES
TERMINATE
520
INCREMENT TO NEXT PAGE
518
532
USAGE COUNT=0?
NO
YES
534
MAKE PAGE AVAILABLE FOR REUSE
SET USAGE COUNT TO 0
536
PAGES REMAINING?
NO
538
YES
TERMINATE
542
INCREMENT TO NEXT PAGE
540

FIG. 5